ISSN 1809-127X (online edition)
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Journal of species lists and distribution

NOTES ON GEOGRAPHIC DISTRIBUTION

Leposoma osvaldoi Avila-Pires, 1995 (Squamata: Gymnophthalmidae): New records and distribution map in the state of Mato Grosso, Brazil

Ricardo A. Kawashita-Ribeiro [1*], Luana A. G. Arruda [1], Marcos A. Carvalho [1, 2], Anelise F. Silva [1], Jacqueline P. Silva [1], Robson W. Ávila [3], Drausio H. Morais [4] and Tamí Mott [1, 2]

1 Universidade Federal de Mato Grosso, Instituto de Biociências, Coleção Zoológica de Vertebrados. Avenida Fernando Corrêa da Costa, 2367. CEP 78060-900. Cuiabá, MT, Brazil.
2 Universidade Federal de Mato Grosso, Instituto de Biociências, Departamento de Biologia e Zoologia. Avenida Fernando Corrêa da Costa, 2367. CEP 78060-900. Cuiabá, MT, Brazil.
3 Universidade Regional do Cariri, Centro de Ciências Biológicas e da Saúde, Departamento de Ciências Biológicas, Campus do Pimenta. Rua Cel. Antonio Luiz, 1161, Bairro do Pimenta. CEP 63105-100. Crato, CE, Brazil.
4 Universidade Estadual Paulista, Instituto de Biociências, Departamento de Parasitologia, Programa de Pós-Graduação em Ciências Biológicas. Distrito de Rubião Júnior s/n. CEP 18618-000. Botucatu, SP, Brazil.
* Corresponding author. E-mail: *serpentesbr@gmail.com*

ABSTRACT: The present study provides the distribution map and reports new records of the gymnophthalmid lizard *Leposoma osvaldoi* Avila-Pires , 1995, from Mato Grosso state, Brazil, extending the known geographical distribution of the species ca. 42 km northeastern in straight line from the nearest record in the state.

The cryptozoic gymnophthalmid lizard genus *Leposoma* Spix, 1825 currently consists of 16 species (Laguna *et al.* 2010; Pellegrino *et al.* 2011) distributed throughout South America (Avila-Pires 1995; Esqueda 2005). Six species are reported in Brazilian Amazonia: *Leposoma guianensis* Ruibal, 1952; *L. ferreirai* Rodrigues and Avila-Pires , 2005; *L. osvaldoi* Avila-Pires , 1995; *L. parietale* (Cope, 1885); *L. percarinatum* (Müller, 1923); and *L. snethlageae* Avila-Pires , 1995 (Laguna *et al.* 2010; see Avila-Pires 1995 for discussion of misidentification of *L. scincoides* Spix, 1825 in Amazonian localities).

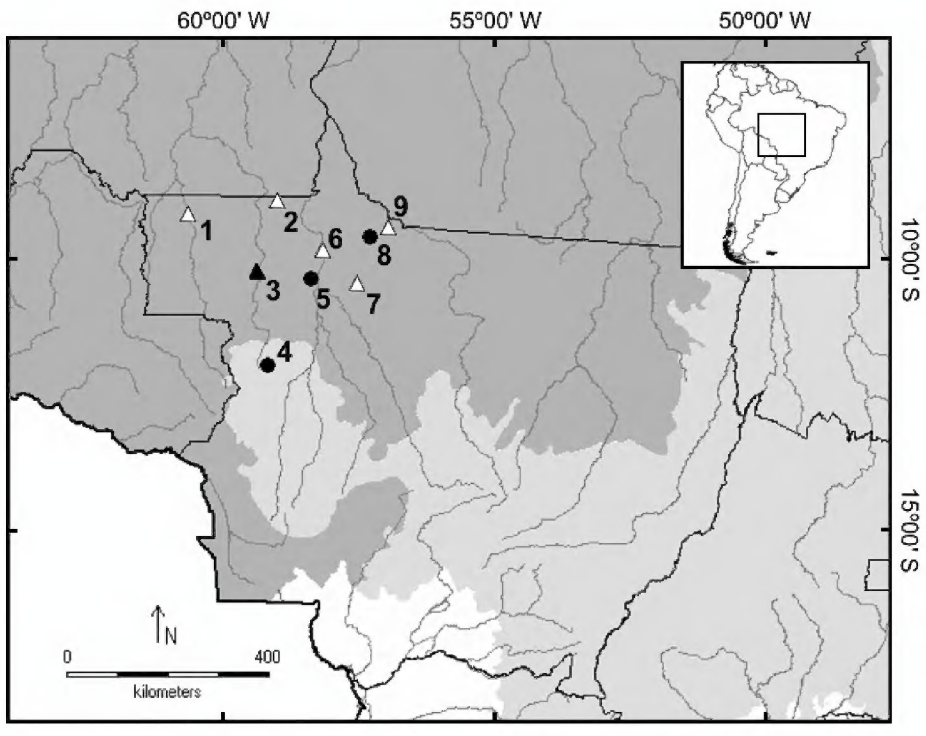

FIGURE 1. Distribution of *Leposoma osvaldoi* in Mato Grosso state, Brazil. Circles represent literature records, black triangles include specimens housed at Coleção Zoológica de Vertebrados da UFMT and literature records available in Avila-Pires (1995), and Pellegrino et al. (2011), white triangles are the new records presented in this paper. Dark gray: Amazon; gray: Cerrado; white: Pantanal. 1 – Colniza (Estação Ecológica Roosevelt); 2 – Colniza (Parque Estadual Igarapés do Juruena); 3 – Aripuanã (Serra do Expedito; PCH Faxinal II; and bibliographic record Pellegrino et al. 2011); 4 – Juína (Paratype; Avila-Pires 1995); 5 – Juruena (Pellegrino et al. 2011); 6 - Cotriguaçu (Fazenda São Nicolau); 7 – Juara (Distrito de Paranorte); 8 – Apiacás (Pellegrino et al. 2011); 9 – Paranaíta (UHE Apiacás).

Leposoma osvaldoi (Figure 1) was described by Avila-Pires (1995) from two Brazilian states: Rondônia and Mato Grosso. Later, Pinto (1999) and Pellegrino *et al.* (2011) reported the species from the state of Amazonas, but Pellegrino *et al.* (2011), using molecular data, suggested that populations from the state of Amazonas could be an undescribed taxon. Currently, the known distribution of *Leposoma osvaldoi* in the state of Mato Grosso corresponds to records of the paratype at Juína municipality, in a transition area of Amazonian Rainforest/Cerrado (Savanna) (Avila-Pires 1995) and to municipalities of Apiacás, Aripuanã and Juruena (Pellegrino *et al.* 2011).

Biological surveys in unexplored Conservation Unities in the state of Mato Grosso, such as Parque Estadual Igarapés do Juruena, Estação Ecológica do Rio Roosevelt, and Parque Estadual do Tucumã, in addition to faunal rescues in the process of installation of many hydroelectric power plants in Mato Grosso, have provided new specimens of *Leposoma osvaldoi* from unknown localities in the state. Herein we report a new record and a distribution map for *Leposoma osvaldoi* in the state of Mato Grosso, Brazil (Figure 1), extending the known geographical distribution of *Leposoma osvaldoi* to Paranaíta municipality *ca.* 42 km northeastern in straight line from the nearest record at Aripuanã municipality in the state of Mato Grosso (Pellegrino *et al.* 2011). Voucher specimens are housed in the Coleção Zoológica de Vertebrados do Instituto de Biociências da Universidade Federal de Mato Grosso, Cuiabá (UFMT-R): 1 – Colniza (Estação Ecológica Roosevelt – 09°08' S, 60°44' W) UFMT-R 7803, UFMT-R 7837-7839, UFMT-R 7841, UFMT-R 7848-7856; 2 – Colniza

(Parque Estadual Igarapés do Juruena – 08°54' S, 59°06' W) UFMT-R 6491, UFMT-R 6737, UFMT-R 7261, UFMT-R 7266-7267, UFMT-R 7422, UFMT-R 7426; 3 – Aripuanã (Serra do Expedito – 10°03' S, 59°29' W) UFMT-R 7186-7188, UFMT-R 7198 and Aripuanã (PCH Faxinal II, Aripuanã city – 10°12' S, 59°27' W) UFMT-R 0983-0984, UFMT-R 1733, UFMT-R 1740-1741, UFMT-R 4194, UFMT-R 4202, UFMT-R 4208-4209, UFMT-R 4285-4586, UFMT-R 5107, UFMT-R 5119-5120, UFMT-R 6439; 5 – Cotriguaçu (Fazenda São Nicolau – 09°48' S, 58°16' W) UFMT-R 8375, UFMT-R 8378, UFMT-R 8388; 6 – Juara (PCH São João da Barra, Distrito de Paranorte – 10°25' S, 57°38' W) UFMT-R 5992; 7 – Paranaíta (UHE Apiacás – 09°22' S, 57°03' W) UFMT-R 7235, UFMT-R 7243.

Figure 2. An adult *Leposoma osvaldoi* (UFMT-R 5107) collected in Aripuanã municipality. Photo by R. A. Kawashita-Ribeiro.

Acknowledgments: We thank T.C. Avila-Pires for helpful suggestions on the manuscript and for providing bibliographic reference. R.A. Kawashita-Ribeiro, M.A. Carvalho and T. Mott thank NIEFA (Núcleo Interdisciplinar de Estudos Faunísticos, FAPEMAT proccess 447441/2009).

Literature Cited

Avila-Pires , T.C.S. 1995. Lizards of Brazilian Amazonia (Reptilia: Squamata). *Zoologische Verhandelingen* 299: 706 p.

Esqueda, L.P. 2005. Un Nuevo *Leposoma* (Squamata: Gymnophthalmidae) de la Reserva Florestal de Caparo, estado Barinas, Venezuela. *Herpetotropicos* 2(1): 33-42.

Laguna, M.M., M.T. Rodrigues, R.M.L. dos Santos, Y. Yonenaga-Yassuda, T.C.S. Avila-Pires , M.S. Hoogmoed, and K.C.M. Pellegrino. 2010. Karyotypes of a cryptic diploid form of the unisexual *Leposoma percarinatum* (Squamata, Gymnophthalmidae) and the bisexual *Leposoma ferreirai* from the lower Rio Negro, Amazonian Brazil. *Journal of Herpetology* 44(1): 153-157.

Pellegrino, K.C.M., M.T. Rodrigues, D.J. Harris, Y. Yonenega-Yassuda and J.W. Sites Jr. 2011. Molecular phylogeny, biogeography and insights into the origin of parthenogenesis in the Neotropical genus *Leposoma* (Squamata: Gymnophthalmidae): Ancient links between Atlantic Forest and Amazonia. *Molecular Phylogenetics and Evolution* 61(2): 446-459.

Pinto, G.S. 1999. Geographical distribution. *Leposoma osvaldoi*. *Herpetological Review* 30 (1): 52.

Received: July 2011
Last Revised: October 2011
Accepted: October 2011
Published online: December 2011
Editorial responsibility: Philippe J.R. Kok